

FILE 'USPATFULL, CAPLUS' ENTERED AT 17:17:41 ON 17 JUL 2011.

L1 1. OTHER A NAME/ARTICLE
L2 7036 S METAL W/ SOAP
L3 484778 S FATTY OR CARBYLIC OR CARBO OR HEXADECANOID OR PALMITIC OR
L4 747179 S ALKALI OR ALKALINE W/ EARTH W/ METAL P/ ACIDIC OR FAT
L5 77645 S L3 & L4 P/ SALT
L6 880784 S SODIUM OR MAGNESIUM OR POTASSIUM OR CALCIUM OR ALUMINUM OR Z
L7 1. OTHER A ALUMINUM OR CHINE
L8 484779 S L3 P/ SALT
L9 1743 S SODIUM OR MAGNESIUM OR POTASSIUM OR CALCIUM OR ALUMINUM OR Z
L10 115673 S L6 OR L9 OR L10
L11 218187 S COSMETIC? OF DERMATOLOG? OR PHARMACEUTICAL OR MAKEUP OR TABL
L12 501 S L1 AND L11 AND L12
L13 96 S L1 P/ L11
L14 34 S L13 AND L14
L15 13 S L15 AND PY 1494

Searches for User Iwells (Count 5774)

Queries 5725 through 5774.

S #	Updt	Database	Query	Time
Comment				
S5774	U	USPT,PGPB,JPAB,EPAB,DWPI 9911235.pn.		2003-07-
30 07:25:50	S5773	U	USPT,PGPB,JPAB,EPAB,DWPI metal soap same (nm or nanometer)	2003-07-
29 16:08:09	S5772	U	USPT,PGPB,JPAB,EPAB,DWPI metal soap near (nm or nanometer)	2003-07-
29 16:07:45	S5771	U	USPT,PGPB,JPAB,EPAB,DWPI ((magnesium stearate or aluminum stearate or zinc stearate or zinc hydroxystearate or calcium ricinoleate or calcium stearate)same (nm or nanometer)) and ((424/401)!CCLS.)	2003-07-

2003-07-

29 15:55:50

S5770

U

USPT,PGPB,JPAB,EPAB,DWPI

((magnesium stearate or aluminum stearate or zinc stearate or
zinc hydroxystearate or calcium ricinoleate or

calcium stearate)near particle) and ((magnesium stearate or
aluminum stearate or zinc stearate or zinc

hydroxystearate or calcium ricinoleate or calcium stearate)same
(nm or nanometer))

2003-07-

29 15:04:57

S5769

U

USPT,PGPB,JPAB,EPAB,DWPI

(magnesium stearate or aluminum stearate or zinc stearate or zinc
hydroxystearate or calcium ricinoleate or
calcium stearate) near particle

2003-07-

29 15:04:48

S5768

U

USPT,PGPB,JPAB,EPAB,DWPI

((magnesium stearate or aluminum stearate or zinc stearate or zinc
hydroxystearate or calcium ricinoleate or
calcium stearate) near (nm or nanometer)

2003-07-

29 15:04:35

S5767

U

USPT,PGPB,JPAB,EPAB,DWPI

((((magnesium stearate or aluminum stearate or zinc stearate or
zinc hydroxystearate or calcium ricinoleate or
calcium stearate)same (nm or nanometer))same particle) and
(424/401.ccls. or cosmetic)

2003-07-

29 15:04:13

S5766

U

USPT,PGPB,JPAB,EPAB,DWPI

((magnesium stearate or aluminum stearate or zinc stearate or
zinc hydroxystearate or calcium ricinoleate or
calcium stearate)same (nm or nanometer)) same particle

2003-07-

29 15:04:01

S5765
U
USPT,PGPB,JPAB,EPAB,DWPI
(magnesium stearate or aluminum stearate or zinc stearate or zinc hydroxystearate or calcium ricinoleate or calcium stearate) same (nm or nanometer) 2003-07-
29 15:03:47

S5764
U
USPT,PGPB,JPAB,EPAB,DWPI
magnesium stearate or aluminum stearate or zinc stearate or zinc hydroxystearate or calcium ricinoleate or calcium stearate 2003-07-
29 15:03:19

S5763
U
USPT,PGPB,JPAB,EPAB,DWPI
((metal soap)same particle) same (nm or nanometer) 2003-07-
29 14:58:53

S5762
U
USPT,PGPB,JPAB,EPAB,DWPI
(metal soap) same particle 2003-07-
29 14:57:49

IP ANSWER 14 OF 14 CAPTION COPYRIGHT 1992 ARI
 AN 1996-144171 PAPLUS
 IN 125:177462
 TI Surface-modified nanoparticles and method of making and using them.
 IN Levy, Robert J.; Radhakrishna, Vinay; Wong, Jamilia M.
 PA USA
 SC PCT Int. Appl., 17 pp.
 COUNTRY: FRANCE
 DT Patent
 LA English
 IC Ad1K000 SI
 CC 63-0 Pharmaceuticals
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI	WO 960698	A1	19960711	WO 1996-US471	19960104
	WO 960698	A3	19980122		
	W:	AL, AM, AT, AU, CA, CH, CN, CZ, DE, DK, GB, HU, IS, JP, KE, LU, VN, MN, NC, US			
	RW:	KE, LS, SP, AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, PT, SE, NL, MR, NE, SN			
PRAI	CA 2207961	AA	19960711	CA 1996-2207961	19960104
	AU 9647556	A1	19960724	AU 1996-47556	19960104
	EP 805678	A1	19971112	EP 1996-903476	19960104
	JP 10511957	T2	19981117	JP 1996-521279	19960104
	US 1995-369541		19950105		
	US 1995-389893		19950216		
	WO 1996-US476		19960104		
AB	Biodegradable controlled-release nanoparticles as sustained release bioactive agent delivery vehicles include surface modifying agents to target binding of the nanoparticles to tissues or cells of living systems, to enhance nanoparticle sustained release properties, and to protect nanoparticle-incorporated bioactive agents. Unique methods of making small (10 nm to 15 nm, and preferably 20 nm to 35 nm) nanoparticles having a narrow size distribution which can be surface-modified after the nanoparticles are formed is described. Techniques for modifying the surface include a lyophilization technique to produce a phys. adsorbed coating and epoxy-derivatization to functionalize the surface of the nanoparticles to covalently bind mols. of interest. The nanoparticles may also comprise hydroxy-terminated or epoxide-terminated and/or activated multiblock copolymers, having hydrophobic segments which may be polycaprolactone and hydrophilic segments. The nanoparticles are useful for local intravascular administration of smooth muscle inhibitors and antithrombogenic agents as part of interventional cardiac or vascular catheterization such as a balloon angioplasty procedure; direct application to tissues and/or cells for gene therapy, such as the delivery of osteotropic genes or gene segments into bone progenitor cells; or oral administration in an enteric capsule for delivery of protein/peptide based vaccines.				
ST	polymer controlled release nanoparticle drug delivery; gene therapy vaccine controlled release nanoparticle				
IT	Animal growth regulators				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (antagonists; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)				
IT	Fibrins				
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (glue, suspending medium; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)				
IT	Cardiovascular agents (inhibitors and stimulators; surface-modified polymer				

controlled-release nanoparticles for sustained drug delivery;
IT Animal tissue culture
 (media; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
IT Biolytic enzymes
 (photoinitiation; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
IT Buffer substances and systems
 (physiol., suspending medium; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
IT Alkylating agents, biological
Antibiotics
Anticoagulants and Antithrombotics
Emulsifying agents
Encapsulation
Freeze drying
Immunosuppressants
Inflammation inhibitors
Neoplasm inhibitors
Sound and Ultrasound
Surfactants
Thrombolytics
Vaccines
 (surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
IT Agglutinins and Lectins
Antibodies
Beeswax
Biopolymers
Caseins, biological studies
Fatty acids, biological studies
Ferritins
Fibrinogens
Glycerides, biological studies
Hemoglobins
Lipids, biological studies
Myoglobins
Phosphatidylethanolamines
Phospholipids, biological studies
Polysaccharides, biological studies
Silicates, biological studies
Waxes and Waxy substances
Wool wax
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
IT Albumins, biological studies
Alkaloids, biological studies
Antigens
Deoxyribonucleic acids
Enzymes
Gelatins, biological studies
Gene, animal
Glycoproteins, biological studies
Hormones
Nucleic acids
Osteocalcins
Phosphazene polymers
Phosphoproteins
Polyanhydrides
Polyesters, biological studies

Polyethers, biological studies

Quaternary ammonium compounds, biological studies

Ribonucleic acids

Toxins

Vinylane polymers

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Polymers, biological studies

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (surface-modifying agents; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Blood serum

Physiological saline solutions
(suspending medium; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Peptides, biological studies

Proteins, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (vaccines based on; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Sialoglycoproteins

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (BSP II (bone sialoglycoprotein II), surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Dental materials and appliances
(adhesives, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Quaternary ammonium compounds

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (alkylbenzyldimethyl, chlorides, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Artery
(angioplasty, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Surfactants

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anionic, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Gene, animal

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anti-onco-, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Animal growth regulators

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (blood platelet-derived growth factors, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Medical goods

(bone cements, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Animal growth regulators

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (bone morphogenetic proteins, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Ion channel blockers

(calcium, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT Surfactants

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL

Biological study ; USES (Uses)
(cationic, surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT Quaternary ammonium compounds, uses
RL: CAT (Catalyst use); USES (Uses)
(complexes, surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT Alcohols, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(fatty, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Fats and Glyceridic oils
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fish, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Therapeutics
(geno-, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Gels
(hydric-, suspending medium; surface-modified polymer controlled release
nanoparticles for sustained drug delivery)

IT Lymphokines and Cytokines
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 1.alpha., surface-modified polymer controlled-release
nanoparticles for sustained drug delivery)

IT Lymphokines and Cytokines
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 1.beta., surface-modified polymer controlled-release
nanoparticles for sustained drug delivery)

IT Lymphokines and Cytokines
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 6, surface-modified polymer controlled-release
nanoparticles for sustained drug delivery)

IT Trace elements, uses
RL: CAT (Catalyst use); USES (Uses)
(metals, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Antibodies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(monoclonal, surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT Pharmaceutical dosage forms
(nanoparticles, controlled-release, surface-modified polymer
controlled-release nanoparticles for sustained drug delivery)

IT Surfactants
(nonionic, surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT Nucleotides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oligo-, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Polymers
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(oligomers, surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT Gene, animal
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(onco-, surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

- IT Polyethers, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(carboxy ester group-contg., surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Glycoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(osteoclastins, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Glycophosphoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(osteopontins, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Bone marrow
(osteoprogenitor cell, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Polyamides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(poly(amino acids), surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Fatty acids, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(potassium salts, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Collagens, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pro-, suspending medium; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Sterilization and Disinfection
(radiochem., surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Heart, disease
(restenosis, prevention of; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Soaps
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(resin, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Fatty acids, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sodium salts, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Oils
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sulfonated, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Amines, uses
RL: CAT (Catalyst use); USES (Uses)
(tertiary, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Toxoids
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tetanus, vaccines based on; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Animal growth regulators
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(transforming growth factors, surface-modified polymer controlled-release nanoparticles for sustained drug delivery)
- IT Lymphokines and Cytokines

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor necrosis factor-alpha, surface-modified polymer
controlled-release nanoparticles for sustained drug delivery)

IT collagen, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(type I, surface modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT collagen, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(type II, surface modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(vitamin K-dependent, surface-modified polymer controlled-release
nanoparticles for sustained drug delivery)

IT E2229-50-9, Epidermal growth factor

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(heparin-binding, -like compds.; surface-modified polymer
controlled-release nanoparticles for sustained drug delivery)

IT 9015-82-1, Angiotensin-converting enzyme 9026-43-1, Protein kinase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; surface-modified polymer controlled-release nanoparticles
for sustained drug delivery)

IT 180741-23-5DP, reaction products with heparin

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(repeating units; surface-modified polymer controlled-release
nanoparticles for sustained drug delivery)

IT 67-64-1, 2-Propanone, biological studies 67-66-3, Chloroform, biological
studies 67-68-5, Dimethylsulfoxide, biological studies 68-12-2,
Dimethylformamide, biological studies 75-09-2, Methylene chloride,
biological studies 109-99-9, biological studies 123-91-1, Dioxane,
biological studies 127-19-5, Dimethylacetamide 141-78-6, Ethyl
acetate, biological studies 684-16-2, Hexafluoroacetone 920-66-1
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(solvent; surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT 75-23-0 75-47-8, Iodoform 102-54-5, Ferrocene 113-00-8, Guanidine
288-32-4, Imidazole, uses 558-13-4, Carbon tetrabromide 7550-45-0,
Titanium tetrachloride, uses 7637-07-2D, Boron trifluoride, adducts
13598-36-2D, Phosphonic acid, alkylidenebis- derivs. 13826-88-5, Zinc
tetrafluoroborate 86665-14-7, Zirconocene chloride
RL: CAT (Catalyst use); USES (Uses)
(surface-modified polymer controlled-release nanoparticles for
sustained drug delivery)

IT 50-70-4, D-Glucitol, biological studies 57-09-0, Cetyl trimethyl
ammonium bromide 57-10-3, Hexadecanoic acid, biological studies
57-88-5, Cholesterol, biological studies 69-65-8, D-Mannitol 102-71-6,
Triethanolamine, biological studies 112-02-7, Hexadecyl trimethyl
ammonium chloride 151-21-3, Sodium dodecyl sulfate, biological studies
577-11-7, Sodium dioctyl sulfosuccinate 1069-55-2, Isobutyl
cyanoacrylate 3282-73-3, Didodecyldimethyl ammonium bromide 7445-62-7
7727-43-7, Barium sulfate 8007-43-0, Sorbitan sesquioleate 9000-65-1,
Tragacanth 9000-69-5, Pectin 9002-89-5, Polyvinyl alcohol 9002-92-0,
Polyoxyethylene lauryl ether 9003-39-8, Polyvinyl pyrrolidone
9003-53-6, Polystyrene 9004-32-4 9004-34-6, Cellulose, biological
studies 9004-35-7, Cellulose acetate 9004-44-8, Cellulose phthalate
9004-64-2, Hydroxypropyl cellulose 9004-99-3 9005-49-6, Heparin,
biological studies 9015-73-0 9050-04-8, CM-cellulose calcium
9050-31-1, Hydroxypropyl methyl cellulose phthalate 10103-46-5, Calcium
phosphate 25322-68-3 106392-12-5, Poloxamer 110617-70-4, Poloxamine
128835-92-7, Lipofectin 180741-27-9

RL: MCA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT 180723-18-IP
RL: RCT (Reactant); SPM (Synthetic preparation); PEEP (Preparation)
(surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT 180741-24-IP 180741-25-IP 180741-26-IP 180801-36-IP 180801-37-IP 180801-38-IP
RL: SPM (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PEEP (Preparation); USES (Uses)
(surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT 50-02-2, Dexamethasone 59-52-9 60-00-4, EDTA, biological studies
60-10-6, Dithizone 77-86-1 77-92-9, biological studies 87-69-4, biological studies 92-84-2D, Phenothiazine, derivs. 102-71-6D, Triethanolamine, fatty acid esters 139-13-9 144-62-7, Ethanedicic acid, biological studies 1306-06-5, Hydroxyapatite 1338-39-2, Span 20 2462-63-7 9000-01-5, Acacia gum 9003-05-8, Polyacrylamide 9004-54-0, Dextran, biological studies 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid 9012-76-4, Chitosan 10102-43-9D, Nitric oxide, compds. 11128-99-7, Angiotensin II 14930-96-2, Cytochalasin B 61912-98-6, Insulin-like growth factor 81845-44-5, Ciprostene 106096-92-8, Acidic fibroblast growth factor 106096-93-9, Basic fibroblast growth factor 114949-22-3, Activin 122647-31-8, Ibutilide 130736-65-1, U 86983
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT 7732-18-5, Water, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(suspending medium; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)